

ABSTRACT OF THE DISCLOSURE

Approximately 80% to 95% electrical energy costs are saved in aeration systems, saving end-users (pulp and paper mill owners) millions annually. That this said New Technology Process by Inventor Colonel Lienal Sanders results in approx 90 to 95% removal efficiencies for each respective pollutants of Biological Oxygen Demand (5 day test), Chemical Oxygen Demand (COD) , Total Organic Carbon (TO) , and COLOR *across the clarifier*. That this said New Technology Process will become BACT (Best Economically Achievable Technology) for Adsorbable Organic Halogens (AIX) and Dioxins also.

This New Technology Process reveals the extreme , severe Loop-Holes in current Law by utilizing BOD parameter alone and how extremely inaccurate , negligent, this said BOD pollutant parameter is and the detriments to environment for continued basis and use of this said pollutant parameter alone for pulp/paper mills' wastewater. For presently U.S. EPA and all 50 states as measurement of effluent quality only utilize BOD pollutant parameter, which is fraudulently flagrant and does not protect the environment. There is a "Hypocritical Myth" that organic matter is biodegraded in pulp and paper mills' aeration basins, activated sludge, oxygen and mechanical air ; however, *this is Totally False. But when you have mills discharging a wastewater with 250 to 400 milligrams per liter of Chemical Oxygen Demand and 1000 to 4000 milligrams per liter of COLOR*, one can easily see detriments to human health and aquatic environment. What is really happening is that in the aeration systems the organic particles, Lignins, and other toxicities, organic constituents are somehow simply changed to not react to the biological oxygen demand test

(5 day demand test for BOD) , but they are neither biodegraded nor destroyed and have to be physically/chemically removed from the effluent prior to discharge.

That this New Technology Process or/ Method can be demonstrated to pulp and paper mills' owners/operators and to EPA Administrator that this said New Invention is technically and economically feasible. { via laboratory scale tests without spending any capital investments}

That institution of this New Invention increases plant wastewater treatment capacity, and enables pulp and paper mills' owners/operators to increase production capacities { bleach plants, newsprint machines, TMP, and /or other multi-million dollars production expansions} without being wastewater limited and with being more easy to obtain NPDES permits/ revisions from EPA